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Application No.	Applicant(s)	Applicant(s)		
10/647,120	SCHUURMANS ET AL.			
Examiner	Art Unit			
James J. Leybourne	2881			

A	10/647,120	SCHUURMANS	SCHUURMANS ET AL.	
Notice of Allowability	Examiner	Art Unit		
	James J. Leybourne	2881		
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT (of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in or other appropriate communes. This application is su	this application. If not in nication will be mailed in	cluded due course. THIS	
1. This communication is responsive to Amenaddment receive	ed 10 Sewptember 2004.			
2. The allowed claim(s) is/are <u>1-16</u> .				
3. 🛛 The drawings filed on <u>25 August 2003</u> are accepted by the	Examiner.			
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on oted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application uments have been received of this communication to file	No in this national stage ap		
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			or NOTICE OF	
 6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the standard or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT for the standard or including the	on's Patent Drawing Review Amendment / Comment or it 84(c)) should be written on the header according to 37 CFR	n the Office action of drawings in the front (not) 1.121(d). RIAL must be submitt		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 2/14/05 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Su Paper No./N 8), 7. ☐ Examiner's A	Mail Date Amendment/Comment Statement of Reasons fo		
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DETAILED ACTION

1. According to the "Amendment" received 10 September 2004, the specification has been amended; claims 1, 2, 9 and 10 have been amended

Response to Arguments

2. Applicant's Remarks received 10 September 2004 have been fully considered and are persuasive.

Allowable Subject Matter

- 3. Claims 1-16 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Regarding independent claim 9, the prior art fails to disclose or make obvious a reflector assembly comprising an inner and outer reflector, each having an inner reflective surface and an outer backing layer wherein the backing layer of the inner reflector is covered with a reflective layer having a reflectivity of between $0.7^{'}$ and 0.99 for wavelengths between 0.1 and $100~\mu m$.

Regarding independent claim 1, the prior art fails to disclose or make obvious a lithographic projection apparatus comprising a reflector assembly with the limitations of the assembly in claim 9.

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Regarding independent claim 2, the prior art fails to disclose or make obvious a lithographic projection apparatus comprising a reflector assembly comprising an inner and outer reflector, each having an inner reflective surface and an outer backing layer wherein the backing layer of the outer reflector has an emissivity of between 0.6 and 0.95 for wavelengths between 0.1 and 100 μ m.

Regarding independent claim 10, the prior art fails to disclose or make obvious a reflector assembly comprising an inner and outer reflector, each having an inner reflective surface and an outer backing layer wherein the backing layer of the outer reflector is covered with a reflective layer having an emissivity of between 0.7 and 0.99 for wavelengths between 0.1 and 100 µm.

Claims 5 and 6 are allowed by virtue of their dependency on claim 1.

Claims 3 and 4 are allowed by virtue of their dependency on claim 2.

Claims 7 and 8 are allowed by virtue of their dependency on claims 1 or 2.

Claims 13, 14 and 16 are allowed by virtue of its dependency on claim 9.

Claim 11 is allowed by virtue of their dependency on claim 10.

Claims 12 and 15 are allowed by virtue of their dependency on claim 9 or 10.

- 5. The main feature that separates the lithographic projection apparatus and reflector assemblies apart from prior art is the use of a reflective coating with specific reflective properties on the backing layer of an inner reflector and the use of a backing with specific emissive properties on the backing layer of an outer reflector.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance"

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to James J. Leybourne whose telephone number is (571)

272-2478. The examiner can normally be reached on M-F 9:00- 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John R Lee can be reached on (571) 272-2477. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

June 2, 2005

JJL

NIKITA WELLS
PRIMARY EXAMINER 06/07/05

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